



TECH CENTER 1600/2900

APR 17 2002

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ADDENDUM TO PRELIMINARY AMENDMENT DATED APRIL 8, 2002

MARKED-UP VERSION OF AMENDED PARAGRAPHS

Amendment to paragraph at page 8, line 18 to page 9, line 8:

Particularly preferred examples of compounds of formulas (I) and (Ia) through (Ig) include, without limitation, 2'-phosphophloretin (2'-PP) [~~CAS name: 1-[2,6-dihydroxy-4-(phosphonooxy)phenyl]-3-(4-hydroxyphenyl)-1-propanone~~], 3-azido-2'-phosphophloretin (AZPP) [~~1-[2,6-dihydroxy-4-(phosphonooxy)phenyl]-3-(3-azido-4-hydroxyphenyl)-1-propanone~~], 4-azido-2'-phosphophloretin [~~1-[2,6-dihydroxy-4-(phosphonooxy)phenyl]-3-(4-azidophenyl)-1-propanone~~], 2'-thiophosphophloretin [~~1-[2,6-dihydroxy-4-(phosphonothio)phenyl]-3-(4-hydroxyphenyl)-1-propanone~~], 2'-aminophosphophloretin (NHPP) [~~1-[2,6-dihydroxy-4-(phosphonoimino)phenyl]-3-(4-hydroxyphenyl)-1-propanone~~], and the pharmaceutically acceptable salts thereof, especially the potassium salts.

Amendment to paragraph at page 9, line 9 to page 12, line 21:

Illustrative preferred examples of ethane-based compounds of formulas (I) and (Ia) through (Ig) (i.e., those compounds where —Z—R¹— is a 2-carbon chain) include, without limitation,

1-(2-phosphonooxy-4-hydroxyphenyl)-2-(3-hydroxyphenyl)ethane,
1-(2-phosphonoimino-4-hydroxyphenyl)-2-(3-hydroxyphenyl)ethane,
1-(2-phosphonothio-4-hydroxyphenyl)-2-(3-hydroxyphenyl)ethane,
1-(2-phosphonooxy-5-hydroxyphenyl)-2-(3-hydroxyphenyl)ethane,
1-(2-phosphonoimino-5-hydroxyphenyl)-2-(3-hydroxyphenyl)ethane,
~~1-(2-phosphonothio-5-dihydroxyphenyl)-2-(3-hydroxyphenyl)ethane~~

1-(2-phosphonothio-5-hydroxyphenyl)-2-(3-hydroxyphenyl)ethane,
1-(2-phosphonooxy-6-hydroxyphenyl)-2-(3-hydroxyphenyl)ethane,
1-(2-phosphonoimino-6-hydroxyphenyl)-2-(3-hydroxyphenyl)ethane,
1-(2-phosphonothio-6-hydroxyphenyl)-2-(3-hydroxyphenyl)ethane,
1-(2-phosphonooxy-4,6-dihydroxyphenyl)-2-(3-hydroxyphenyl)ethane,
1-(2-phosphonoimino-4,6-dihydroxyphenyl)-2-(3-hydroxyphenyl)ethane,
1-(2-phosphonothio-4,6-dihydroxyphenyl)-2-(3-hydroxyphenyl)ethane,
1-(2-phosphonooxy-4-hydroxyphenyl)-2-(4-hydroxyphenyl)ethane,
1-(2-phosphonoimino-4-hydroxyphenyl)-2-(4-hydroxyphenyl)ethane,
~~1-(2-phosphonothio-4-dihydroxyphenyl)-2-(4-hydroxyphenyl)ethane~~
1-(2-phosphonothio-4-hydroxyphenyl)-2-(4-hydroxyphenyl)ethane,
1-(2-phosphonooxy-5-hydroxyphenyl)-2-(4-hydroxyphenyl)ethane,
1-(2-phosphonoimino-5-hydroxyphenyl)-2-(4-hydroxyphenyl)ethane,
~~1-(2-phosphonothio-5-dihydroxyphenyl)-2-(4-hydroxyphenyl)ethane~~
1-(2-phosphonothio-5-hydroxyphenyl)-2-(4-hydroxyphenyl)ethane,
1-(2-phosphonooxy-6-hydroxyphenyl)-2-(4-hydroxyphenyl)ethane,
1-(2-phosphonoimino-6-hydroxyphenyl)-2-(4-hydroxyphenyl)ethane,
1-(2-phosphonothio-6-hydroxyphenyl)-2-(4-hydroxyphenyl)ethane,
1-(2-phosphonooxy-4,6-dihydroxyphenyl)-2-(4-hydroxyphenyl)ethane,
1-(2-phosphonoimino-4,6-dihydroxyphenyl)-2-(4-hydroxyphenyl)ethane,
1-(2-phosphonothio-4,6-dihydroxyphenyl)-2-(4-hydroxyphenyl)ethane,
1-(2-phosphonooxy-4-hydroxyphenyl)-2-(3-hydroxyphenyl)-1-hydroxyethane,
1-(2-phosphonoimino-4-hydroxyphenyl)-2-(3-hydroxyphenyl)-1-hydroxyethane,
1-(2-phosphonothio-4-hydroxyphenyl)-2-(3-hydroxyphenyl)-1-hydroxyethane,
1-(2-phosphonooxy-5-hydroxyphenyl)-2-(3-hydroxyphenyl)-1-hydroxyethane,
1-(2-phosphonoimino-5-hydroxyphenyl)-2-(3-hydroxyphenyl)-1-hydroxyethane,
1-(2-phosphonothio-5-hydroxyphenyl)-2-(3-hydroxyphenyl)-1-hydroxyethane,
1-(2-phosphonooxy-6-hydroxyphenyl)-2-(3-hydroxyphenyl)-1-hydroxyethane,

1-(2-phosphonoimino-6-hydroxyphenyl)-2-(3-hydroxyphenyl)-1-hydroxyethane,
1-(2-phosphonothio-6-hydroxyphenyl)-2-(3-hydroxyphenyl)-1-hydroxyethane,
1-(2-phosphonooxy-4,6-dihydroxyphenyl)-2-(3-hydroxyphenyl)-1-hydroxyethane,
1-(2-phosphonoimino-4,6-dihydroxyphenyl)-2-(3-hydroxyphenyl)-1-hydroxyethane,
1-(2-phosphonothio-4,6-dihydroxyphenyl)-2-(3-hydroxyphenyl)-1-hydroxyethane,
1-(2-phosphonooxy-4-hydroxyphenyl)-2-(4-hydroxyphenyl)-1-hydroxyethane,
1-(2-phosphonoimino-4-hydroxyphenyl)-2-(4-hydroxyphenyl)-1-hydroxyethane,
~~1-(2-phosphonothio-4-hydroxyphenyl)-2-(4-hydroxyphenyl)-1-hydroxyethane~~
1-(2-phosphonothio-4-hydroxyphenyl)-2-(4-hydroxyphenyl)-1-hydroxyethane,
1-(2-phosphonooxy-5-hydroxyphenyl)-2-(4-hydroxyphenyl)-1-hydroxyethane,
1-(2-phosphonoimino-5-hydroxyphenyl)-2-(4-hydroxyphenyl)-1-hydroxyethane,
1-(2-phosphonothio-5-hydroxyphenyl)-2-(4-hydroxyphenyl)-1-hydroxyethane,
1-(2-phosphonooxy-6-hydroxyphenyl)-2-(4-hydroxyphenyl)-1-hydroxyethane,
1-(2-phosphonoimino-6-hydroxyphenyl)-2-(4-hydroxyphenyl)-1-hydroxyethane,
1-(2-phosphonothio-6-hydroxyphenyl)-2-(4-hydroxyphenyl)-1-hydroxyethane,
1-(2-phosphonooxy-4,6-dihydroxyphenyl)-2-(4-hydroxyphenyl)-1-hydroxyethane,
1-(2-phosphonoimino-4,6-dihydroxyphenyl)-2-(4-hydroxyphenyl)-1-hydroxyethane,
1-(2-phosphonothio-4,6-dihydroxyphenyl)-2-(4-hydroxyphenyl)-1-hydroxyethane,
1-(2-phosphonooxy-4-hydroxyphenyl)-2-(3-hydroxyphenyl)-1,1-dihydroxyethane,
1-(2-phosphonoimino-4-hydroxyphenyl)-2-(3-hydroxyphenyl)-1,1-dihydroxyethane,
1-(2-phosphonothio-4-hydroxyphenyl)-2-(3-hydroxyphenyl)-1,1-dihydroxyethane,
1-(2-phosphonooxy-5-hydroxyphenyl)-2-(3-hydroxyphenyl)-1,1-dihydroxyethane,
1-(2-phosphonoimino-5-hydroxyphenyl)-2-(3-hydroxyphenyl)-1,1-dihydroxyethane,
1-(2-phosphonothio-5-hydroxyphenyl)-2-(3-hydroxyphenyl)-1,1-dihydroxyethane,
1-(2-phosphonooxy-6-hydroxyphenyl)-2-(3-hydroxyphenyl)-1,1-dihydroxyethane,
1-(2-phosphonoimino-6-hydroxyphenyl)-2-(3-hydroxyphenyl)-1,1-dihydroxyethane,
1-(2-phosphonothio-6-hydroxyphenyl)-2-(3-hydroxyphenyl)-1,1-dihydroxyethane,
1-(2-phosphonooxy-4,6-dihydroxyphenyl)-2-(3-hydroxyphenyl)-1,1-dihydroxyethane,

1-(2-phosphonoimino-4,6-dihydroxyphenyl)-2-(3-hydroxyphenyl)-1,1-dihydroxyethane,
1-(2-phosphonothio-4,6-dihydroxyphenyl)-2-(3-hydroxyphenyl)-1,1-dihydroxyethane,
1-(2-phosphonooxy-4-hydroxyphenyl)-2-(4-hydroxyphenyl)-1,1-dihydroxyethane,
1-(2-phosphonoimino-4-hydroxyphenyl)-2-(4-hydroxyphenyl)-1,1-dihydroxyethane,
~~1-(2-phosphonothio-4-dihydroxyphenyl)-2-(4-hydroxyphenyl)-1,1-dihydroxyethane~~
1-(2-phosphonothio-4-hydroxyphenyl)-2-(4-hydroxyphenyl)-1,1-dihydroxyethane,
1-(2-phosphonooxy-5-hydroxyphenyl)-2-(4-hydroxyphenyl)-1,1-dihydroxyethane,
1-(2-phosphonoimino-5-hydroxyphenyl)-2-(4-hydroxyphenyl)-1,1-dihydroxyethane,
~~1-(2-phosphonothio-5-dihydroxyphenyl)-2-(4-hydroxyphenyl)-1,1-dihydroxyethane~~
1-(2-phosphonothio-5-hydroxyphenyl)-2-(4-hydroxyphenyl)-1,1-dihydroxyethane,
1-(2-phosphonooxy-6-hydroxyphenyl)-2-(4-hydroxyphenyl)-1,1-dihydroxyethane,
1-(2-phosphonoimino-6-hydroxyphenyl)-2-(4-hydroxyphenyl)-1,1-dihydroxyethane,
1-(2-phosphonothio-6-hydroxyphenyl)-2-(4-hydroxyphenyl)-1,1-dihydroxyethane,
1-(2-phosphonooxy-4,6-dihydroxyphenyl)-2-(4-hydroxyphenyl)-1,1-dihydroxyethane,
1-(2-phosphonoimino-4,6-dihydroxyphenyl)-2-(4-hydroxyphenyl)-1,1-dihydroxyethane,
1-(2-phosphonothio-4,6-dihydroxyphenyl)-2-(4-hydroxyphenyl)-1,1-dihydroxyethane,
1-(2-phosphonooxy-4-hydroxyphenyl)-2-(3-hydroxyphenyl)ethan-1-one,
1-(2-phosphonoimino-4-hydroxyphenyl)-2-(3-hydroxyphenyl)ethan-1-one,
1-(2-phosphonothio-4-hydroxyphenyl)-2-(3-hydroxyphenyl)ethan-1-one,
1-(2-phosphonooxy-5-hydroxyphenyl)-2-(3-hydroxyphenyl)ethan-1-one,
1-(2-phosphonoimino-5-hydroxyphenyl)-2-(3-hydroxyphenyl)ethan-1-one,
1-(2-phosphonothio-5-hydroxyphenyl)-2-(3-hydroxyphenyl)ethan-1-one,
1-(2-phosphonooxy-6-hydroxyphenyl)-2-(3-hydroxyphenyl)ethan-1-one,
1-(2-phosphonoimino-6-hydroxyphenyl)-2-(3-hydroxyphenyl)ethan-1-one,
1-(2-phosphonothio-6-hydroxyphenyl)-2-(3-hydroxyphenyl)ethan-1-one,
1-(2-phosphonooxy-4,6-dihydroxyphenyl)-2-(3-hydroxyphenyl)ethan-1-one,
1-(2-phosphonoimino-4,6-dihydroxyphenyl)-2-(3-hydroxyphenyl)ethan-1-one,
1-(2-phosphonothio-4,6-dihydroxyphenyl)-2-(3-hydroxyphenyl)ethan-1-one,

1-(2-phosphonooxy-4-hydroxyphenyl)-2-(4-hydroxyphenyl)ethan-1-one,
1-(2-phosphonoimino-4-hydroxyphenyl)-2-(4-hydroxyphenyl)ethan-1-one,
~~1-(2-phosphonothio-4-dihydroxyphenyl)-2-(4-hydroxyphenyl)ethan-1-one~~
1-(2-phosphonothio-4-hydroxyphenyl)-2-(4-hydroxyphenyl)ethan-1-one,
1-(2-phosphonooxy-5-hydroxyphenyl)-2-(4-hydroxyphenyl)ethan-1-one,
1-(2-phosphonoimino-5-hydroxyphenyl)-2-(4-hydroxyphenyl)ethan-1-one,
1-(2-phosphonothio-5-hydroxyphenyl)-2-(4-hydroxyphenyl)ethan-1-one,
1-(2-phosphonooxy-6-hydroxyphenyl)-2-(4-hydroxyphenyl)ethan-1-one,
1-(2-phosphonoimino-6-hydroxyphenyl)-2-(4-hydroxyphenyl)ethan-1-one,
1-(2-phosphonothio-6-hydroxyphenyl)-2-(4-hydroxyphenyl)ethan-1-one,
1-(2-phosphonooxy-4,6-dihydroxyphenyl)-2-(4-hydroxyphenyl)ethan-1-one,
1-(2-phosphonoimino-4,6-dihydroxyphenyl)-2-(4-hydroxyphenyl)ethan-1-one,
1-(2-phosphonothio-4,6-dihydroxyphenyl)-2-(4-hydroxyphenyl)ethan-1-one,
alkylated analogs (alkyl groups on the alkylene connector or on the two phenyl groups),
or amino analogs (hydroxy groups replaced by amino groups), and the like, and the
pharmaceutically acceptable salts thereof.

Amendment to paragraph at page 13, line 24 to page 20, line 14:

Illustrative preferred examples of propane-based compounds of formulas (I)
and (Ia) through (Ig) include, without limitation,

1-(2-phosphonooxy-4-hydroxyphenyl)-2-(3-hydroxyphenyl)propane,
1-(2-phosphonoimino-4-hydroxyphenyl)-2-(3-hydroxyphenyl)propane,
1-(2-phosphonothio-4-hydroxyphenyl)-2-(3-hydroxyphenyl)propane,
1-(2-phosphonooxy-5-hydroxyphenyl)-2-(3-hydroxyphenyl)propane,
1-(2-phosphonoimino-5-hydroxyphenyl)-2-(3-hydroxyphenyl)propane,
~~1-(2-phosphonothio-5-dihydroxyphenyl)-2-(3-hydroxyphenyl)propane~~
1-(2-phosphonothio-5-hydroxyphenyl)-2-(3-hydroxyphenyl)propane,

1-(2-phosphonooxy-6-hydroxyphenyl)-2-(3-hydroxyphenyl)propane,
1-(2-phosphonoimino-6-hydroxyphenyl)-2-(3-hydroxyphenyl)propane,
1-(2-phosphonothio-6-hydroxyphenyl)-2-(3-hydroxyphenyl)propane,
1-(2-phosphonooxy-4,6-dihydroxyphenyl)-2-(3-hydroxyphenyl)propane,
1-(2-phosphonoimino-4,6-dihydroxyphenyl)-2-(3-hydroxyphenyl)propane,
1-(2-phosphonothio-4,6-dihydroxyphenyl)-2-(3-hydroxyphenyl)propane,
1-(2-phosphonooxy-4-hydroxyphenyl)-2-(4-hydroxyphenyl)propane,
1-(2-phosphonoimino-4-hydroxyphenyl)-2-(4-hydroxyphenyl)propane,
~~1-(2-phosphonothio-4-dihydroxyphenyl)-2-(4-hydroxyphenyl)propane~~
1-(2-phosphonothio-4-hydroxyphenyl)-2-(4-hydroxyphenyl)propane,
1-(2-phosphonooxy-5-hydroxyphenyl)-2-(4-hydroxyphenyl)propane,
1-(2-phosphonoimino-5-hydroxyphenyl)-2-(4-hydroxyphenyl)propane,
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1-(2-phosphonothio-5-hydroxyphenyl)-2-(4-hydroxyphenyl)propane,
1-(2-phosphonooxy-6-hydroxyphenyl)-2-(4-hydroxyphenyl)propane,
1-(2-phosphonoimino-6-hydroxyphenyl)-2-(4-hydroxyphenyl)propane,
1-(2-phosphonothio-6-hydroxyphenyl)-2-(4-hydroxyphenyl)propane,
1-(2-phosphonooxy-4,6-dihydroxyphenyl)-2-(4-hydroxyphenyl)propane,
1-(2-phosphonoimino-4,6-dihydroxyphenyl)-2-(4-hydroxyphenyl)propane,
1-(2-phosphonothio-4,6-dihydroxyphenyl)-2-(4-hydroxyphenyl)propane,
1-(2-phosphonooxy-4-hydroxyphenyl)-2-(3-hydroxyphenyl)-1-hydroxypropane,
1-(2-phosphonoimino-4-hydroxyphenyl)-2-(3-hydroxyphenyl)-1-hydroxypropane,
1-(2-phosphonothio-4-hydroxyphenyl)-2-(3-hydroxyphenyl)-1-hydroxypropane,
1-(2-phosphonooxy-5-hydroxyphenyl)-2-(3-hydroxyphenyl)-1-hydroxypropane,
1-(2-phosphonoimino-5-hydroxyphenyl)-2-(3-hydroxyphenyl)-1-hydroxypropane,
1-(2-phosphonothio-5-hydroxyphenyl)-2-(3-hydroxyphenyl)-1-hydroxypropane,
1-(2-phosphonooxy-6-hydroxyphenyl)-2-(3-hydroxyphenyl)-1-hydroxypropane,
1-(2-phosphonoimino-6-hydroxyphenyl)-2-(3-hydroxyphenyl)-1-hydroxypropane,

1-(2-phosphonothio-6-hydroxyphenyl)-2-(3-hydroxyphenyl)-1-hydroxypropane,
1-(2-phosphonooxy-4,6-dihydroxyphenyl)-2-(3-hydroxyphenyl)-1-hydroxypropane,
1-(2-phosphonoimino-4,6-dihydroxyphenyl)-2-(3-hydroxyphenyl)-1-hydroxypropane,
1-(2-phosphonothio-4,6-dihydroxyphenyl)-2-(3-hydroxyphenyl)-1-hydroxypropane,
1-(2-phosphonooxy-4-hydroxyphenyl)-2-(4-hydroxyphenyl)-1-hydroxypropane,
1-(2-phosphonoimino-4-hydroxyphenyl)-2-(4-hydroxyphenyl)-1-hydroxypropane,
~~1-(2-phosphonothio-4-dihydroxyphenyl)-2-(4-hydroxyphenyl)-1-hydroxypropane~~
1-(2-phosphonothio-4-hydroxyphenyl)-2-(4-hydroxyphenyl)-1-hydroxypropane,
1-(2-phosphonooxy-5-hydroxyphenyl)-2-(4-hydroxyphenyl)-1-hydroxypropane,
1-(2-phosphonoimino-5-hydroxyphenyl)-2-(4-hydroxyphenyl)-1-hydroxypropane,
1-(2-phosphonothio-5-hydroxyphenyl)-2-(4-hydroxyphenyl)-1-hydroxypropane,
1-(2-phosphonooxy-6-hydroxyphenyl)-2-(4-hydroxyphenyl)-1-hydroxypropane,
1-(2-phosphonoimino-6-hydroxyphenyl)-2-(4-hydroxyphenyl)-1-hydroxypropane,
1-(2-phosphonothio-6-hydroxyphenyl)-2-(4-hydroxyphenyl)-1-hydroxypropane,
1-(2-phosphonooxy-4,6-dihydroxyphenyl)-2-(4-hydroxyphenyl)-1-hydroxypropane,
1-(2-phosphonoimino-4,6-dihydroxyphenyl)-2-(4-hydroxyphenyl)-1-hydroxypropane,
1-(2-phosphonothio-4,6-dihydroxyphenyl)-2-(4-hydroxyphenyl)-1-hydroxypropane,
1-(2-phosphonooxy-4-hydroxyphenyl)-2-(3-hydroxyphenyl)-1,1-dihydroxypropane,
1-(2-phosphonoimino-4-hydroxyphenyl)-2-(3-hydroxyphenyl)-1,1-dihydroxypropane,
1-(2-phosphonothio-4-hydroxyphenyl)-2-(3-hydroxyphenyl)-1,1-dihydroxypropane,
1-(2-phosphonooxy-5-hydroxyphenyl)-2-(3-hydroxyphenyl)-1,1-dihydroxypropane,
1-(2-phosphonoimino-5-hydroxyphenyl)-2-(3-hydroxyphenyl)-1,1-dihydroxypropane,
1-(2-phosphonothio-5-hydroxyphenyl)-2-(3-hydroxyphenyl)-1,1-dihydroxypropane,
1-(2-phosphonooxy-6-hydroxyphenyl)-2-(3-hydroxyphenyl)-1,1-dihydroxypropane,
1-(2-phosphonoimino-6-hydroxyphenyl)-2-(3-hydroxyphenyl)-1,1-dihydroxypropane,
1-(2-phosphonothio-6-hydroxyphenyl)-2-(3-hydroxyphenyl)-1,1-dihydroxypropane,
1-(2-phosphonooxy-4,6-dihydroxyphenyl)-2-(3-hydroxyphenyl)-1,1-dihydroxypropane,
1-(2-phosphonoimino-4,6-dihydroxyphenyl)-2-(3-hydroxyphenyl)-1,1-dihydroxypropane,

1-(2-phosphonothio-4,6-dihydroxyphenyl)-2-(3-hydroxyphenyl)-1,1-dihydroxypropane,
 1-(2-phosphonooxy-4-hydroxyphenyl)-2-(4-hydroxyphenyl)-1,1-dihydroxypropane,
 1-(2-phosphonoimino-4-hydroxyphenyl)-2-(4-hydroxyphenyl)-1,1-dihydroxypropane,
~~1-(2-phosphonothio-4-dihydroxyphenyl)-2-(4-hydroxyphenyl)-1,1-dihydroxypropane~~
1-(2-phosphonothio-4-hydroxyphenyl)-2-(4-hydroxyphenyl)-1,1-dihydroxypropane,
 1-(2-phosphonooxy-5-hydroxyphenyl)-2-(4-hydroxyphenyl)-1,1-dihydroxypropane,
 1-(2-phosphonoimino-5-hydroxyphenyl)-2-(4-hydroxyphenyl)-1,1-dihydroxypropane,
~~1-(2-phosphonothio-5-dihydroxyphenyl)-2-(4-hydroxyphenyl)-1,1-dihydroxypropane~~
1-(2-phosphonothio-5-hydroxyphenyl)-2-(4-hydroxyphenyl)-1,1-dihydroxypropane,
 1-(2-phosphonooxy-6-hydroxyphenyl)-2-(4-hydroxyphenyl)-1,1-dihydroxypropane,
 1-(2-phosphonoimino-6-hydroxyphenyl)-2-(4-hydroxyphenyl)-1,1-dihydroxypropane,
 1-(2-phosphonothio-6-hydroxyphenyl)-2-(4-hydroxyphenyl)-1,1-dihydroxypropane,
 1-(2-phosphonooxy-4,6-dihydroxyphenyl)-2-(4-hydroxyphenyl)-1,1-dihydroxypropane,
 1-(2-phosphonoimino-4,6-dihydroxyphenyl)-2-(4-hydroxyphenyl)-1,1-dihydroxypropane,
 1-(2-phosphonothio-4,6-dihydroxyphenyl)-2-(4-hydroxyphenyl)-1,1-dihydroxypropane,
 1-(2-phosphonooxy-4-hydroxyphenyl)-2-(3-hydroxyphenyl)propan-1-one,
 1-(2-phosphonoimino-4-hydroxyphenyl)-2-(3-hydroxyphenyl)propan-1-one,
 1-(2-phosphonothio-4-hydroxyphenyl)-2-(3-hydroxyphenyl)propan-1-one,
 1-(2-phosphonooxy-5-hydroxyphenyl)-2-(3-hydroxyphenyl)propan-1-one,
 1-(2-phosphonoimino-5-hydroxyphenyl)-2-(3-hydroxyphenyl)propan-1-one,
 1-(2-phosphonothio-5-hydroxyphenyl)-2-(3-hydroxyphenyl)propan-1-one,
 1-(2-phosphonooxy-6-hydroxyphenyl)-2-(3-hydroxyphenyl)propan-1-one,
 1-(2-phosphonoimino-6-hydroxyphenyl)-2-(3-hydroxyphenyl)propan-1-one,
 1-(2-phosphonothio-6-hydroxyphenyl)-2-(3-hydroxyphenyl)propan-1-one,
 1-(2-phosphonooxy-4,6-dihydroxyphenyl)-2-(3-hydroxyphenyl)propan-1-one,
 1-(2-phosphonoimino-4,6-dihydroxyphenyl)-2-(3-hydroxyphenyl)propan-1-one,
 1-(2-phosphonothio-4,6-dihydroxyphenyl)-2-(3-hydroxyphenyl)propan-1-one,
 1-(2-phosphonooxy-4-hydroxyphenyl)-2-(4-hydroxyphenyl)propan-1-one,

1-(2-phosphonoimino-4-hydroxyphenyl)-2-(4-hydroxyphenyl)propan-1-one,
~~1-(2-phosphonothio-4-dihydroxyphenyl)-2-(4-hydroxyphenyl)propan-1-one~~
1-(2-phosphonothio-4-hydroxyphenyl)-2-(4-hydroxyphenyl)propan-1-one,
 1-(2-phosphonooxy-5-hydroxyphenyl)-2-(4-hydroxyphenyl)propan-1-one,
 1-(2-phosphonoimino-5-hydroxyphenyl)-2-(4-hydroxyphenyl)propan-1-one,
 1-(2-phosphonothio-5-hydroxyphenyl)-2-(4-hydroxyphenyl)propan-1-one,
 1-(2-phosphonooxy-6-hydroxyphenyl)-2-(4-hydroxyphenyl)propan-1-one,
 1-(2-phosphonoimino-6-hydroxyphenyl)-2-(4-hydroxyphenyl)propan-1-one,
 1-(2-phosphonothio-6-hydroxyphenyl)-2-(4-hydroxyphenyl)propan-1-one,
 1-(2-phosphonooxy-4,6-dihydroxyphenyl)-2-(4-hydroxyphenyl)propan-1-one,
 1-(2-phosphonoimino-4,6-dihydroxyphenyl)-2-(4-hydroxyphenyl)propan-1-one,
 1-(2-phosphonothio-4,6-dihydroxyphenyl)-2-(4-hydroxyphenyl)propan-1-one,
 1-(2-phosphonooxy-4-hydroxyphenyl)-3-(3-hydroxyphenyl)propane,
 1-(2-phosphonoimino-4-hydroxyphenyl)-3-(3-hydroxyphenyl)propane,
 1-(2-phosphonothio-4-hydroxyphenyl)-3-(3-hydroxyphenyl)propane,
 1-(2-phosphonooxy-5-hydroxyphenyl)-3-(3-hydroxyphenyl)propane,
 1-(2-phosphonoimino-5-hydroxyphenyl)-3-(3-hydroxyphenyl)propane,
~~1-(2-phosphonothio-5-dihydroxyphenyl)-3-(3-hydroxyphenyl)propane~~
1-(2-phosphonothio-5-hydroxyphenyl)-3-(3-hydroxyphenyl)propane,
 1-(2-phosphonooxy-6-hydroxyphenyl)-3-(3-hydroxyphenyl)propane,
 1-(2-phosphonoimino-6-hydroxyphenyl)-3-(3-hydroxyphenyl)propane,
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 1-(2-phosphonooxy-4,6-dihydroxyphenyl)-3-(3-hydroxyphenyl)propane,
 1-(2-phosphonoimino-4,6-dihydroxyphenyl)-3-(3-hydroxyphenyl)propane,
 1-(2-phosphonothio-4,6-dihydroxyphenyl)-3-(3-hydroxyphenyl)propane,
 1-(2-phosphonooxy-4-hydroxyphenyl)-3-(4-hydroxyphenyl)propane,
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~~1-(2-phosphonothio-4-dihydroxyphenyl)-3-(4-hydroxyphenyl)propane~~

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1-(2-phosphonooxy-5-hydroxyphenyl)-3-(4-hydroxyphenyl)propane,
1-(2-phosphonoimino-5-hydroxyphenyl)-3-(4-hydroxyphenyl)propane,
~~1-(2-phosphonothio-5-dihydroxyphenyl)-3-(4-hydroxyphenyl)propane~~
1-(2-phosphonothio-5-hydroxyphenyl)-3-(4-hydroxyphenyl)propane,
1-(2-phosphonooxy-6-hydroxyphenyl)-3-(4-hydroxyphenyl)propane,
1-(2-phosphonoimino-6-hydroxyphenyl)-3-(4-hydroxyphenyl)propane,
1-(2-phosphonothio-6-hydroxyphenyl)-3-(4-hydroxyphenyl)propane,
1-(2-phosphonooxy-4,6-dihydroxyphenyl)-3-(4-hydroxyphenyl)propane,
1-(2-phosphonoimino-4,6-dihydroxyphenyl)-3-(4-hydroxyphenyl)propane,
1-(2-phosphonothio-4,6-dihydroxyphenyl)-3-(4-hydroxyphenyl)propane,
1-(2-phosphonooxy-4-hydroxyphenyl)-3-(3-hydroxyphenyl)-1-hydroxypropane,
1-(2-phosphonoimino-4-hydroxyphenyl)-3-(3-hydroxyphenyl)-1-hydroxypropane,
1-(2-phosphonothio-4-hydroxyphenyl)-3-(3-hydroxyphenyl)-1-hydroxypropane,
1-(2-phosphonooxy-5-hydroxyphenyl)-3-(3-hydroxyphenyl)-1-hydroxypropane,
1-(2-phosphonoimino-5-hydroxyphenyl)-3-(3-hydroxyphenyl)-1-hydroxypropane,
1-(2-phosphonothio-5-hydroxyphenyl)-3-(3-hydroxyphenyl)-1-hydroxypropane,
1-(2-phosphonooxy-6-hydroxyphenyl)-3-(3-hydroxyphenyl)-1-hydroxypropane,
1-(2-phosphonoimino-6-hydroxyphenyl)-3-(3-hydroxyphenyl)-1-hydroxypropane,
1-(2-phosphonothio-6-hydroxyphenyl)-3-(3-hydroxyphenyl)-1-hydroxypropane,
1-(2-phosphonooxy-4,6-dihydroxyphenyl)-3-(3-hydroxyphenyl)-1-hydroxypropane,
1-(2-phosphonoimino-4,6-dihydroxyphenyl)-3-(3-hydroxyphenyl)-1-hydroxypropane,
1-(2-phosphonothio-4,6-dihydroxyphenyl)-3-(3-hydroxyphenyl)-1-hydroxypropane,
1-(2-phosphonooxy-4-hydroxyphenyl)-3-(4-hydroxyphenyl)-1-hydroxypropane,
1-(2-phosphonoimino-4-hydroxyphenyl)-3-(4-hydroxyphenyl)-1-hydroxypropane,
~~1-(2-phosphonothio-4-dihydroxyphenyl)-3-(4-hydroxyphenyl)-1-hydroxypropane~~
1-(2-phosphonothio-4-hydroxyphenyl)-3-(4-hydroxyphenyl)-1-hydroxypropane,
1-(2-phosphonooxy-5-hydroxyphenyl)-3-(4-hydroxyphenyl)-1-hydroxypropane,

1-(2-phosphonoimino-5-hydroxyphenyl)-3-(4-hydroxyphenyl)-1-hydroxypropane,
1-(2-phosphonothio-5-hydroxyphenyl)-3-(4-hydroxyphenyl)-1-hydroxypropane,
1-(2-phosphonooxy-6-hydroxyphenyl)-3-(4-hydroxyphenyl)-1-hydroxypropane,
1-(2-phosphonoimino-6-hydroxyphenyl)-3-(4-hydroxyphenyl)-1-hydroxypropane,
1-(2-phosphonothio-6-hydroxyphenyl)-3-(4-hydroxyphenyl)-1-hydroxypropane,
1-(2-phosphonooxy-4,6-dihydroxyphenyl)-3-(4-hydroxyphenyl)-1-hydroxypropane,
1-(2-phosphonoimino-4,6-dihydroxyphenyl)-3-(4-hydroxyphenyl)-1-hydroxypropane,
1-(2-phosphonothio-4,6-dihydroxyphenyl)-3-(4-hydroxyphenyl)-1-hydroxypropane,
1-(2-phosphonooxy-4-hydroxyphenyl)-3-(3-hydroxyphenyl)-1,1-dihydroxypropane,
1-(2-phosphonoimino-4-hydroxyphenyl)-3-(3-hydroxyphenyl)-1,1-dihydroxypropane,
1-(2-phosphonothio-4-hydroxyphenyl)-3-(3-hydroxyphenyl)-1,1-dihydroxypropane,
1-(2-phosphonooxy-5-hydroxyphenyl)-3-(3-hydroxyphenyl)-1,1-dihydroxypropane,
1-(2-phosphonoimino-5-hydroxyphenyl)-3-(3-hydroxyphenyl)-1,1-dihydroxypropane,
1-(2-phosphonothio-5-hydroxyphenyl)-3-(3-hydroxyphenyl)-1,1-dihydroxypropane,
1-(2-phosphonooxy-6-hydroxyphenyl)-3-(3-hydroxyphenyl)-1,1-dihydroxypropane,
1-(2-phosphonoimino-6-hydroxyphenyl)-3-(3-hydroxyphenyl)-1,1-dihydroxypropane,
1-(2-phosphonothio-6-hydroxyphenyl)-3-(3-hydroxyphenyl)-1,1-dihydroxypropane,
1-(2-phosphonooxy-4,6-dihydroxyphenyl)-3-(3-hydroxyphenyl)-1,1-dihydroxypropane,
1-(2-phosphonoimino-4,6-dihydroxyphenyl)-3-(3-hydroxyphenyl)-1,1-dihydroxypropane,
1-(2-phosphonothio-4,6-dihydroxyphenyl)-3-(3-hydroxyphenyl)-1,1-dihydroxypropane,
1-(2-phosphonooxy-4-hydroxyphenyl)-3-(4-hydroxyphenyl)-1,1-dihydroxypropane,
1-(2-phosphonoimino-4-hydroxyphenyl)-3-(4-hydroxyphenyl)-1,1-dihydroxypropane,
~~1-(2-phosphonothio-4-dihydroxyphenyl)-3-(4-hydroxyphenyl)-1,1-dihydroxypropane~~
1-(2-phosphonothio-4-hydroxyphenyl)-3-(4-hydroxyphenyl)-1,1-dihydroxypropane,
1-(2-phosphonooxy-5-hydroxyphenyl)-3-(4-hydroxyphenyl)-1,1-dihydroxypropane,
1-(2-phosphonoimino-5-hydroxyphenyl)-3-(4-hydroxyphenyl)-1,1-dihydroxypropane,
~~1-(2-phosphonothio-5-dihydroxyphenyl)-3-(4-hydroxyphenyl)-1,1-dihydroxypropane~~
1-(2-phosphonothio-5-hydroxyphenyl)-3-(4-hydroxyphenyl)-1,1-dihydroxypropane,

1-(2-phosphonooxy-6-hydroxyphenyl)-3-(4-hydroxyphenyl)-1,1-dihydroxypropane,
 1-(2-phosphonoimino-6-hydroxyphenyl)-3-(4-hydroxyphenyl)-1,1-dihydroxypropane,
 1-(2-phosphonothio-6-hydroxyphenyl)-3-(4-hydroxyphenyl)-1,1-dihydroxypropane,
 1-(2-phosphonooxy-4,6-dihydroxyphenyl)-3-(4-hydroxyphenyl)-1,1-dihydroxypropane,
 1-(2-phosphonoimino-4,6-dihydroxyphenyl)-3-(4-hydroxyphenyl)-1,1-dihydroxypropane,
 1-(2-phosphonothio-4,6-dihydroxyphenyl)-3-(4-hydroxyphenyl)-1,1-dihydroxypropane,
 1-(2-phosphonooxy-4-hydroxyphenyl)-3-(3-hydroxyphenyl)propan-1-one,
 1-(2-phosphonoimino-4-hydroxyphenyl)-3-(3-hydroxyphenyl)propan-1-one,
 1-(2-phosphonothio-4-hydroxyphenyl)-3-(3-hydroxyphenyl)propan-1-one,
 1-(2-phosphonooxy-5-hydroxyphenyl)-3-(3-hydroxyphenyl)propan-1-one,
 1-(2-phosphonoimino-5-hydroxyphenyl)-3-(3-hydroxyphenyl)propan-1-one,
 1-(2-phosphonothio-5-hydroxyphenyl)-3-(3-hydroxyphenyl)propan-1-one,
 1-(2-phosphonooxy-6-hydroxyphenyl)-3-(3-hydroxyphenyl)propan-1-one,
 1-(2-phosphonoimino-6-hydroxyphenyl)-3-(3-hydroxyphenyl)propan-1-one,
 1-(2-phosphonothio-6-hydroxyphenyl)-3-(3-hydroxyphenyl)propan-1-one,
 1-(2-phosphonooxy-4,6-dihydroxyphenyl)-3-(3-hydroxyphenyl)propan-1-one,
 1-(2-phosphonoimino-4,6-dihydroxyphenyl)-3-(3-hydroxyphenyl)propan-1-one,
 1-(2-phosphonothio-4,6-dihydroxyphenyl)-3-(3-hydroxyphenyl)propan-1-one,
 1-(2-phosphonooxy-4-hydroxyphenyl)-3-(4-hydroxyphenyl)propan-1-one,
 1-(2-phosphonoimino-4-hydroxyphenyl)-3-(4-hydroxyphenyl)propan-1-one,
~~1-(2-phosphonothio-4-dihydroxyphenyl)-3-(4-hydroxyphenyl)propan-1-one~~
1-(2-phosphonothio-4-hydroxyphenyl)-3-(4-hydroxyphenyl)propan-1-one,
 1-(2-phosphonooxy-5-hydroxyphenyl)-3-(4-hydroxyphenyl)propan-1-one,
 1-(2-phosphonoimino-5-hydroxyphenyl)-3-(4-hydroxyphenyl)propan-1-one,
 1-(2-phosphonothio-5-hydroxyphenyl)-3-(4-hydroxyphenyl)propan-1-one,
 1-(2-phosphonooxy-6-hydroxyphenyl)-3-(4-hydroxyphenyl)propan-1-one,
 1-(2-phosphonoimino-6-hydroxyphenyl)-3-(4-hydroxyphenyl)propan-1-one,
 1-(2-phosphonothio-6-hydroxyphenyl)-3-(4-hydroxyphenyl)propan-1-one,

1-(2-phosphonooxy-4,6-dihydroxyphenyl)-3-(4-hydroxyphenyl)propan-1-one,
1-(2-phosphonoimino-4,6-dihydroxyphenyl)-3-(4-hydroxyphenyl)propan-1-one,
1-(2-phosphonothio-4,6-dihydroxyphenyl)-3-(4-hydroxyphenyl)propan-1-one,
alkylated analogs (alkyl groups on the alkylene connector or on the two phenyl groups),
or amino analogs (hydroxy groups replaced by amino groups), and the like, and the
pharmaceutically acceptable salts thereof.

Amendment to paragraph at page 20, line 15 to page 30, line 8:

Illustrative preferred examples of butane-based compounds of formulas (I) and
(Ia) through (Ig) include, without limitation,

1-(2-phosphonooxy-4-hydroxyphenyl)-2-(3-hydroxyphenyl)butane,
1-(2-phosphonoimino-4-hydroxyphenyl)-2-(3-hydroxyphenyl)butane,
1-(2-phosphonothio-4-hydroxyphenyl)-2-(3-hydroxyphenyl)butane,
1-(2-phosphonooxy-5-hydroxyphenyl)-2-(3-hydroxyphenyl)butane,
1-(2-phosphonoimino-5-hydroxyphenyl)-2-(3-hydroxyphenyl)butane,
~~1-(2-phosphonothio-5-dihydroxyphenyl)-2-(3-hydroxyphenyl)butane~~
1-(2-phosphonothio-5-hydroxyphenyl)-2-(3-hydroxyphenyl)butane,
1-(2-phosphonooxy-6-hydroxyphenyl)-2-(3-hydroxyphenyl)butane,
1-(2-phosphonoimino-6-hydroxyphenyl)-2-(3-hydroxyphenyl)butane,
1-(2-phosphonothio-6-hydroxyphenyl)-2-(3-hydroxyphenyl)butane,
1-(2-phosphonooxy-4,6-dihydroxyphenyl)-2-(3-hydroxyphenyl)butane,
1-(2-phosphonoimino-4,6-dihydroxyphenyl)-2-(3-hydroxyphenyl)butane,
1-(2-phosphonothio-4,6-dihydroxyphenyl)-2-(3-hydroxyphenyl)butane,
1-(2-phosphonooxy-4-hydroxyphenyl)-2-(4-hydroxyphenyl)butane,
1-(2-phosphonoimino-4-hydroxyphenyl)-2-(4-hydroxyphenyl)butane,
1-(2-phosphonothio-4-hydroxyphenyl)-2-(4-hydroxyphenyl)butane,
1-(2-phosphonooxy-5-hydroxyphenyl)-2-(4-hydroxyphenyl)butane,

1-(2-phosphonoimino-5-hydroxyphenyl)-2-(4-hydroxyphenyl)butane,
~~1-(2-phosphonothio-5-dihydroxyphenyl)-2-(4-hydroxyphenyl)butane~~
1-(2-phosphonothio-5-hydroxyphenyl)-2-(4-hydroxyphenyl)butane,
1-(2-phosphonooxy-6-hydroxyphenyl)-2-(4-hydroxyphenyl)butane,
1-(2-phosphonoimino-6-hydroxyphenyl)-2-(4-hydroxyphenyl)butane,
1-(2-phosphonothio-6-hydroxyphenyl)-2-(4-hydroxyphenyl)butane,
1-(2-phosphonooxy-4,6-dihydroxyphenyl)-2-(4-hydroxyphenyl)butane,
1-(2-phosphonoimino-4,6-dihydroxyphenyl)-2-(4-hydroxyphenyl)butane,
1-(2-phosphonothio-4,6-dihydroxyphenyl)-2-(4-hydroxyphenyl)butane,
1-(2-phosphonooxy-4-hydroxyphenyl)-2-(3-hydroxyphenyl)-1-hydroxybutane,
1-(2-phosphonoimino-4-hydroxyphenyl)-2-(3-hydroxyphenyl)-1-hydroxybutane,
1-(2-phosphonothio-4-hydroxyphenyl)-2-(3-hydroxyphenyl)-1-hydroxybutane,
1-(2-phosphonooxy-5-hydroxyphenyl)-2-(3-hydroxyphenyl)-1-hydroxybutane,
1-(2-phosphonoimino-5-hydroxyphenyl)-2-(3-hydroxyphenyl)-1-hydroxybutane,
1-(2-phosphonothio-5-hydroxyphenyl)-2-(3-hydroxyphenyl)-1-hydroxybutane,
1-(2-phosphonooxy-6-hydroxyphenyl)-2-(3-hydroxyphenyl)-1-hydroxybutane,
1-(2-phosphonoimino-6-hydroxyphenyl)-2-(3-hydroxyphenyl)-1-hydroxybutane,
1-(2-phosphonothio-6-hydroxyphenyl)-2-(3-hydroxyphenyl)-1-hydroxybutane,
1-(2-phosphonooxy-4,6-dihydroxyphenyl)-2-(3-hydroxyphenyl)-1-hydroxybutane,
1-(2-phosphonoimino-4,6-dihydroxyphenyl)-2-(3-hydroxyphenyl)-1-hydroxybutane,
1-(2-phosphonothio-4,6-dihydroxyphenyl)-2-(3-hydroxyphenyl)-1-hydroxybutane,
1-(2-phosphonooxy-4-hydroxyphenyl)-2-(4-hydroxyphenyl)-1-hydroxybutane,
1-(2-phosphonoimino-4-hydroxyphenyl)-2-(4-hydroxyphenyl)-1-hydroxybutane,
~~1-(2-phosphonothio-4-dihydroxyphenyl)-2-(4-hydroxyphenyl)-1-hydroxybutane~~
1-(2-phosphonothio-4-hydroxyphenyl)-2-(4-hydroxyphenyl)-1-hydroxybutane,
1-(2-phosphonooxy-5-hydroxyphenyl)-2-(4-hydroxyphenyl)-1-hydroxybutane,
1-(2-phosphonoimino-5-hydroxyphenyl)-2-(4-hydroxyphenyl)-1-hydroxybutane,
1-(2-phosphonothio-5-hydroxyphenyl)-2-(4-hydroxyphenyl)-1-hydroxybutane,

1-(2-phosphonooxy-6-hydroxyphenyl)-2-(4-hydroxyphenyl)-1-hydroxybutane,
1-(2-phosphonoimino-6-hydroxyphenyl)-2-(4-hydroxyphenyl)-1-hydroxybutane,
1-(2-phosphonothio-6-hydroxyphenyl)-2-(4-hydroxyphenyl)-1-hydroxybutane,
1-(2-phosphonooxy-4,6-dihydroxyphenyl)-2-(4-hydroxyphenyl)-1-hydroxybutane,
1-(2-phosphonoimino-4,6-dihydroxyphenyl)-2-(4-hydroxyphenyl)-1-hydroxybutane,
1-(2-phosphonothio-4,6-dihydroxyphenyl)-2-(4-hydroxyphenyl)-1-hydroxybutane,
1-(2-phosphonooxy-4-hydroxyphenyl)-2-(3-hydroxyphenyl)-1,1-dihydroxybutane,
1-(2-phosphonoimino-4-hydroxyphenyl)-2-(3-hydroxyphenyl)-1,1-dihydroxybutane,
1-(2-phosphonothio-4-hydroxyphenyl)-2-(3-hydroxyphenyl)-1,1-dihydroxybutane,
1-(2-phosphonooxy-5-hydroxyphenyl)-2-(3-hydroxyphenyl)-1,1-dihydroxybutane,
1-(2-phosphonoimino-5-hydroxyphenyl)-2-(3-hydroxyphenyl)-1,1-dihydroxybutane,
1-(2-phosphonothio-5-hydroxyphenyl)-2-(3-hydroxyphenyl)-1,1-dihydroxybutane,
1-(2-phosphonooxy-6-hydroxyphenyl)-2-(3-hydroxyphenyl)-1,1-dihydroxybutane,
1-(2-phosphonoimino-6-hydroxyphenyl)-2-(3-hydroxyphenyl)-1,1-dihydroxybutane,
1-(2-phosphonothio-6-hydroxyphenyl)-2-(3-hydroxyphenyl)-1,1-dihydroxybutane,
1-(2-phosphonooxy-4,6-dihydroxyphenyl)-2-(3-hydroxyphenyl)-1,1-dihydroxybutane,
1-(2-phosphonoimino-4,6-dihydroxyphenyl)-2-(3-hydroxyphenyl)-1,1-dihydroxybutane,
1-(2-phosphonothio-4,6-dihydroxyphenyl)-2-(3-hydroxyphenyl)-1,1-dihydroxybutane,
1-(2-phosphonooxy-4-hydroxyphenyl)-2-(4-hydroxyphenyl)-1,1-dihydroxybutane,
1-(2-phosphonoimino-4-hydroxyphenyl)-2-(4-hydroxyphenyl)-1,1-dihydroxybutane,
~~1-(2-phosphonothio-4-hydroxyphenyl)-2-(4-hydroxyphenyl)-1,1-dihydroxybutane~~
1-(2-phosphonothio-4-hydroxyphenyl)-2-(4-hydroxyphenyl)-1,1-dihydroxybutane,
1-(2-phosphonooxy-5-hydroxyphenyl)-2-(4-hydroxyphenyl)-1,1-dihydroxybutane,
1-(2-phosphonoimino-5-hydroxyphenyl)-2-(4-hydroxyphenyl)-1,1-dihydroxybutane,
~~1-(2-phosphonothio-5-hydroxyphenyl)-2-(4-hydroxyphenyl)-1,1-dihydroxybutane~~
1-(2-phosphonothio-5-hydroxyphenyl)-2-(4-hydroxyphenyl)-1,1-dihydroxybutane,
1-(2-phosphonooxy-6-hydroxyphenyl)-2-(4-hydroxyphenyl)-1,1-dihydroxybutane,
1-(2-phosphonoimino-6-hydroxyphenyl)-2-(4-hydroxyphenyl)-1,1-dihydroxybutane,

1-(2-phosphonothio-6-hydroxyphenyl)-2-(4-hydroxyphenyl)-1,1-dihydroxybutane,
1-(2-phosphonooxy-4,6-dihydroxyphenyl)-2-(4-hydroxyphenyl)-1,1-dihydroxybutane,
1-(2-phosphonoimino-4,6-dihydroxyphenyl)-2-(4-hydroxyphenyl)-1,1-dihydroxybutane,
1-(2-phosphonothio-4,6-dihydroxyphenyl)-2-(4-hydroxyphenyl)-1,1-dihydroxybutane,
1-(2-phosphonooxy-4-hydroxyphenyl)-2-(3-hydroxyphenyl)butan-1-one,
1-(2-phosphonoimino-4-hydroxyphenyl)-2-(3-hydroxyphenyl)butan-1-one,
1-(2-phosphonothio-4-hydroxyphenyl)-2-(3-hydroxyphenyl)butan-1-one,
1-(2-phosphonooxy-5-hydroxyphenyl)-2-(3-hydroxyphenyl)butan-1-one,
1-(2-phosphonoimino-5-hydroxyphenyl)-2-(3-hydroxyphenyl)butan-1-one,
1-(2-phosphonothio-5-hydroxyphenyl)-2-(3-hydroxyphenyl)butan-1-one,
1-(2-phosphonooxy-6-hydroxyphenyl)-2-(3-hydroxyphenyl)butan-1-one,
1-(2-phosphonoimino-6-hydroxyphenyl)-2-(3-hydroxyphenyl)butan-1-one,
1-(2-phosphonothio-6-hydroxyphenyl)-2-(3-hydroxyphenyl)butan-1-one,
1-(2-phosphonooxy-4,6-dihydroxyphenyl)-2-(3-hydroxyphenyl)butan-1-one,
1-(2-phosphonoimino-4,6-dihydroxyphenyl)-2-(3-hydroxyphenyl)butan-1-one,
1-(2-phosphonothio-4,6-dihydroxyphenyl)-2-(3-hydroxyphenyl)butan-1-one,
1-(2-phosphonooxy-4-hydroxyphenyl)-2-(4-hydroxyphenyl)butan-1-one,
1-(2-phosphonoimino-4-hydroxyphenyl)-2-(4-hydroxyphenyl)butan-1-one,
~~1-(2-phosphonothio-4-hydroxyphenyl)-2-(4-hydroxyphenyl)butan-1-one~~
1-(2-phosphonothio-4-hydroxyphenyl)-2-(4-hydroxyphenyl)butan-1-one,
1-(2-phosphonooxy-5-hydroxyphenyl)-2-(4-hydroxyphenyl)butan-1-one,
1-(2-phosphonoimino-5-hydroxyphenyl)-2-(4-hydroxyphenyl)butan-1-one,
1-(2-phosphonothio-5-hydroxyphenyl)-2-(4-hydroxyphenyl)butan-1-one,
1-(2-phosphonooxy-6-hydroxyphenyl)-2-(4-hydroxyphenyl)butan-1-one,
1-(2-phosphonoimino-6-hydroxyphenyl)-2-(4-hydroxyphenyl)butan-1-one,
1-(2-phosphonothio-6-hydroxyphenyl)-2-(4-hydroxyphenyl)butan-1-one,
1-(2-phosphonooxy-4,6-dihydroxyphenyl)-2-(4-hydroxyphenyl)butan-1-one,
1-(2-phosphonoimino-4,6-dihydroxyphenyl)-2-(4-hydroxyphenyl)butan-1-one,

1-(2-phosphonothio-4,6-dihydroxyphenyl)-2-(4-hydroxyphenyl)butan-1-one,
1-(2-phosphonooxy-4-hydroxyphenyl)-3-(3-hydroxyphenyl)butane,
1-(2-phosphonoimino-4-hydroxyphenyl)-3-(3-hydroxyphenyl)butane,
1-(2-phosphonothio-4-hydroxyphenyl)-3-(3-hydroxyphenyl)butane,
1-(2-phosphonooxy-5-hydroxyphenyl)-3-(3-hydroxyphenyl)butane,
1-(2-phosphonoimino-5-hydroxyphenyl)-3-(3-hydroxyphenyl)butane,
~~1-(2-phosphonothio-5-dihydroxyphenyl)-3-(3-hydroxyphenyl)butane~~
1-(2-phosphonothio-5-hydroxyphenyl)-3-(3-hydroxyphenyl)butane,
1-(2-phosphonooxy-6-hydroxyphenyl)-3-(3-hydroxyphenyl)butane,
1-(2-phosphonoimino-6-hydroxyphenyl)-3-(3-hydroxyphenyl)butane,
1-(2-phosphonothio-6-hydroxyphenyl)-3-(3-hydroxyphenyl)butane,
1-(2-phosphonooxy-4,6-dihydroxyphenyl)-3-(3-hydroxyphenyl)butane,
1-(2-phosphonoimino-4,6-dihydroxyphenyl)-3-(3-hydroxyphenyl)butane,
1-(2-phosphonothio-4,6-dihydroxyphenyl)-3-(3-hydroxyphenyl)butane,
1-(2-phosphonooxy-4-hydroxyphenyl)-3-(4-hydroxyphenyl)butane,
1-(2-phosphonoimino-4-hydroxyphenyl)-3-(4-hydroxyphenyl)butane,
~~1-(2-phosphonothio-4-dihydroxyphenyl)-3-(4-hydroxyphenyl)butane~~
1-(2-phosphonothio-4-hydroxyphenyl)-3-(4-hydroxyphenyl)butane,
1-(2-phosphonooxy-5-hydroxyphenyl)-3-(4-hydroxyphenyl)butane,
1-(2-phosphonoimino-5-hydroxyphenyl)-3-(4-hydroxyphenyl)butane,
~~1-(2-phosphonothio-5-dihydroxyphenyl)-3-(4-hydroxyphenyl)butane~~
1-(2-phosphonothio-5-hydroxyphenyl)-3-(4-hydroxyphenyl)butane,
1-(2-phosphonooxy-6-hydroxyphenyl)-3-(4-hydroxyphenyl)butane,
1-(2-phosphonoimino-6-hydroxyphenyl)-3-(4-hydroxyphenyl)butane,
1-(2-phosphonothio-6-hydroxyphenyl)-3-(4-hydroxyphenyl)butane,
1-(2-phosphonooxy-4,6-dihydroxyphenyl)-3-(4-hydroxyphenyl)butane,
1-(2-phosphonoimino-4,6-dihydroxyphenyl)-3-(4-hydroxyphenyl)butane,
1-(2-phosphonothio-4,6-dihydroxyphenyl)-3-(4-hydroxyphenyl)butane,

1-(2-phosphonooxy-4-hydroxyphenyl)-3-(3-hydroxyphenyl)-1-hydroxybutane,
1-(2-phosphonoimino-4-hydroxyphenyl)-3-(3-hydroxyphenyl)-1-hydroxybutane,
1-(2-phosphonothio-4-hydroxyphenyl)-3-(3-hydroxyphenyl)-1-hydroxybutane,
1-(2-phosphonooxy-5-hydroxyphenyl)-3-(3-hydroxyphenyl)-1-hydroxybutane,
1-(2-phosphonoimino-5-hydroxyphenyl)-3-(3-hydroxyphenyl)-1-hydroxybutane,
1-(2-phosphonothio-5-hydroxyphenyl)-3-(3-hydroxyphenyl)-1-hydroxybutane,
1-(2-phosphonooxy-6-hydroxyphenyl)-3-(3-hydroxyphenyl)-1-hydroxybutane,
1-(2-phosphonoimino-6-hydroxyphenyl)-3-(3-hydroxyphenyl)-1-hydroxybutane,
1-(2-phosphonothio-6-hydroxyphenyl)-3-(3-hydroxyphenyl)-1-hydroxybutane,
1-(2-phosphonooxy-4,6-dihydroxyphenyl)-3-(3-hydroxyphenyl)-1-hydroxybutane,
1-(2-phosphonoimino-4,6-dihydroxyphenyl)-3-(3-hydroxyphenyl)-1-hydroxybutane,
1-(2-phosphonothio-4,6-dihydroxyphenyl)-3-(3-hydroxyphenyl)-1-hydroxybutane,
1-(2-phosphonooxy-4-hydroxyphenyl)-3-(4-hydroxyphenyl)-1-hydroxybutane,
1-(2-phosphonoimino-4-hydroxyphenyl)-3-(4-hydroxyphenyl)-1-hydroxybutane,
~~1-(2-phosphonothio-4-dihydroxyphenyl)-3-(4-hydroxyphenyl)-1-hydroxybutane~~
1-(2-phosphonothio-4-hydroxyphenyl)-3-(4-hydroxyphenyl)-1-hydroxybutane,
1-(2-phosphonooxy-5-hydroxyphenyl)-3-(4-hydroxyphenyl)-1-hydroxybutane,
1-(2-phosphonoimino-5-hydroxyphenyl)-3-(4-hydroxyphenyl)-1-hydroxybutane,
1-(2-phosphonothio-5-hydroxyphenyl)-3-(4-hydroxyphenyl)-1-hydroxybutane,
1-(2-phosphonooxy-6-hydroxyphenyl)-3-(4-hydroxyphenyl)-1-hydroxybutane,
1-(2-phosphonoimino-6-hydroxyphenyl)-3-(4-hydroxyphenyl)-1-hydroxybutane,
1-(2-phosphonothio-6-hydroxyphenyl)-3-(4-hydroxyphenyl)-1-hydroxybutane,
1-(2-phosphonooxy-4,6-dihydroxyphenyl)-3-(4-hydroxyphenyl)-1-hydroxybutane,
1-(2-phosphonoimino-4,6-dihydroxyphenyl)-3-(4-hydroxyphenyl)-1-hydroxybutane,
1-(2-phosphonothio-4,6-dihydroxyphenyl)-3-(4-hydroxyphenyl)-1-hydroxybutane,
1-(2-phosphonooxy-4-hydroxyphenyl)-3-(3-hydroxyphenyl)-1,1-dihydroxybutane,
1-(2-phosphonoimino-4-hydroxyphenyl)-3-(3-hydroxyphenyl)-1,1-dihydroxybutane,
1-(2-phosphonothio-4-hydroxyphenyl)-3-(3-hydroxyphenyl)-1,1-dihydroxybutane,

1-(2-phosphonooxy-5-hydroxyphenyl)-3-(3-hydroxyphenyl)-1,1-dihydroxybutane,
1-(2-phosphonoimino-5-hydroxyphenyl)-3-(3-hydroxyphenyl)-1,1-dihydroxybutane,
1-(2-phosphonothio-5-hydroxyphenyl)-3-(3-hydroxyphenyl)-1,1-dihydroxybutane,
1-(2-phosphonooxy-6-hydroxyphenyl)-3-(3-hydroxyphenyl)-1,1-dihydroxybutane,
1-(2-phosphonoimino-6-hydroxyphenyl)-3-(3-hydroxyphenyl)-1,1-dihydroxybutane,
1-(2-phosphonothio-6-hydroxyphenyl)-3-(3-hydroxyphenyl)-1,1-dihydroxybutane,
1-(2-phosphonooxy-4,6-dihydroxyphenyl)-3-(3-hydroxyphenyl)-1,1-dihydroxybutane,
1-(2-phosphonoimino-4,6-dihydroxyphenyl)-3-(3-hydroxyphenyl)-1,1-dihydroxybutane,
1-(2-phosphonothio-4,6-dihydroxyphenyl)-3-(3-hydroxyphenyl)-1,1-dihydroxybutane,
1-(2-phosphonooxy-4-hydroxyphenyl)-3-(4-hydroxyphenyl)-1,1-dihydroxybutane,
1-(2-phosphonoimino-4-hydroxyphenyl)-3-(4-hydroxyphenyl)-1,1-dihydroxybutane,
~~1-(2-phosphonothio-4-hydroxyphenyl)-3-(4-hydroxyphenyl)-1,1-dihydroxybutane~~
1-(2-phosphonothio-4-hydroxyphenyl)-3-(4-hydroxyphenyl)-1,1-dihydroxybutane,
1-(2-phosphonooxy-5-hydroxyphenyl)-3-(4-hydroxyphenyl)-1,1-dihydroxybutane,
1-(2-phosphonoimino-5-hydroxyphenyl)-3-(4-hydroxyphenyl)-1,1-dihydroxybutane,
~~1-(2-phosphonothio-5-hydroxyphenyl)-3-(4-hydroxyphenyl)-1,1-dihydroxybutane~~
1-(2-phosphonothio-5-hydroxyphenyl)-3-(4-hydroxyphenyl)-1,1-dihydroxybutane,
1-(2-phosphonooxy-6-hydroxyphenyl)-3-(4-hydroxyphenyl)-1,1-dihydroxybutane,
1-(2-phosphonoimino-6-hydroxyphenyl)-3-(4-hydroxyphenyl)-1,1-dihydroxybutane,
1-(2-phosphonothio-6-hydroxyphenyl)-3-(4-hydroxyphenyl)-1,1-dihydroxybutane,
1-(2-phosphonooxy-4,6-dihydroxyphenyl)-3-(4-hydroxyphenyl)-1,1-dihydroxybutane,
1-(2-phosphonoimino-4,6-dihydroxyphenyl)-3-(4-hydroxyphenyl)-1,1-dihydroxybutane,
1-(2-phosphonothio-4,6-dihydroxyphenyl)-3-(4-hydroxyphenyl)-1,1-dihydroxybutane,
1-(2-phosphonooxy-4-hydroxyphenyl)-3-(3-hydroxyphenyl)butan-1-one,
1-(2-phosphonoimino-4-hydroxyphenyl)-3-(3-hydroxyphenyl)butan-1-one,
1-(2-phosphonothio-4-hydroxyphenyl)-3-(3-hydroxyphenyl)butan-1-one,
1-(2-phosphonooxy-5-hydroxyphenyl)-3-(3-hydroxyphenyl)butan-1-one,
1-(2-phosphonoimino-5-hydroxyphenyl)-3-(3-hydroxyphenyl)butan-1-one,

1-(2-phosphonothio-5-hydroxyphenyl)-3-(3-hydroxyphenyl)butan-1-one,
1-(2-phosphonooxy-6-hydroxyphenyl)-3-(3-hydroxyphenyl)butan-1-one,
1-(2-phosphonoimino-6-hydroxyphenyl)-3-(3-hydroxyphenyl)butan-1-one,
1-(2-phosphonothio-6-hydroxyphenyl)-3-(3-hydroxyphenyl)butan-1-one,
1-(2-phosphonooxy-4,6-dihydroxyphenyl)-3-(3-hydroxyphenyl)butan-1-one,
1-(2-phosphonoimino-4,6-dihydroxyphenyl)-3-(3-hydroxyphenyl)butan-1-one,
1-(2-phosphonothio-4,6-dihydroxyphenyl)-3-(3-hydroxyphenyl)butan-1-one,
1-(2-phosphonooxy-4-hydroxyphenyl)-3-(4-hydroxyphenyl)butan-1-one,
1-(2-phosphonoimino-4-hydroxyphenyl)-3-(4-hydroxyphenyl)butan-1-one,
~~1-(2-phosphonothio-4-dihydroxyphenyl)-3-(4-hydroxyphenyl)butan-1-one~~
1-(2-phosphonothio-4-hydroxyphenyl)-3-(4-hydroxyphenyl)butan-1-one,
1-(2-phosphonooxy-5-hydroxyphenyl)-3-(4-hydroxyphenyl)butan-1-one,
1-(2-phosphonoimino-5-hydroxyphenyl)-3-(4-hydroxyphenyl)butan-1-one,
1-(2-phosphonothio-5-hydroxyphenyl)-3-(4-hydroxyphenyl)butan-1-one,
1-(2-phosphonooxy-6-hydroxyphenyl)-3-(4-hydroxyphenyl)butan-1-one,
1-(2-phosphonoimino-6-hydroxyphenyl)-3-(4-hydroxyphenyl)butan-1-one,
1-(2-phosphonothio-6-hydroxyphenyl)-3-(4-hydroxyphenyl)butan-1-one,
1-(2-phosphonooxy-4,6-dihydroxyphenyl)-3-(4-hydroxyphenyl)butan-1-one,
1-(2-phosphonoimino-4,6-dihydroxyphenyl)-3-(4-hydroxyphenyl)butan-1-one,
1-(2-phosphonothio-4,6-dihydroxyphenyl)-3-(4-hydroxyphenyl)butan-1-one,
1-(2-phosphonooxy-4-hydroxyphenyl)-4-(3-hydroxyphenyl)butane,
1-(2-phosphonoimino-4-hydroxyphenyl)-4-(3-hydroxyphenyl)butane,
1-(2-phosphonothio-4-hydroxyphenyl)-4-(3-hydroxyphenyl)butane,
1-(2-phosphonooxy-5-hydroxyphenyl)-4-(3-hydroxyphenyl)butane,
1-(2-phosphonoimino-5-hydroxyphenyl)-4-(3-hydroxyphenyl)butane,
~~1-(2-phosphonothio-5-dihydroxyphenyl)-4-(3-hydroxyphenyl)butane~~
1-(2-phosphonothio-5-hydroxyphenyl)-4-(3-hydroxyphenyl)butane,
1-(2-phosphonooxy-6-hydroxyphenyl)-4-(3-hydroxyphenyl)butane,

1-(2-phosphonoimino-6-hydroxyphenyl)-4-(3-hydroxyphenyl)butane,
1-(2-phosphonothio-6-hydroxyphenyl)-4-(3-hydroxyphenyl)butane,
1-(2-phosphonooxy-4,6-dihydroxyphenyl)-4-(3-hydroxyphenyl)butane,
1-(2-phosphonoimino-4,6-dihydroxyphenyl)-4-(3-hydroxyphenyl)butane,
1-(2-phosphonothio-4,6-dihydroxyphenyl)-4-(3-hydroxyphenyl)butane,
1-(2-phosphonooxy-4-hydroxyphenyl)-4-(4-hydroxyphenyl)butane,
1-(2-phosphonoimino-4-hydroxyphenyl)-4-(4-hydroxyphenyl)butane,
~~1-(2-phosphonothio-4-dihydroxyphenyl)-4-(4-hydroxyphenyl)butane~~
1-(2-phosphonothio-4-hydroxyphenyl)-4-(4-hydroxyphenyl)butane,
1-(2-phosphonooxy-5-hydroxyphenyl)-4-(4-hydroxyphenyl)butane,
1-(2-phosphonoimino-5-hydroxyphenyl)-4-(4-hydroxyphenyl)butane,
~~1-(2-phosphonothio-5-dihydroxyphenyl)-4-(4-hydroxyphenyl)butane~~
1-(2-phosphonothio-5-hydroxyphenyl)-4-(4-hydroxyphenyl)butane,
1-(2-phosphonooxy-6-hydroxyphenyl)-4-(4-hydroxyphenyl)butane,
1-(2-phosphonoimino-6-hydroxyphenyl)-4-(4-hydroxyphenyl)butane,
1-(2-phosphonothio-6-hydroxyphenyl)-4-(4-hydroxyphenyl)butane,
1-(2-phosphonooxy-4,6-dihydroxyphenyl)-4-(4-hydroxyphenyl)butane,
1-(2-phosphonoimino-4,6-dihydroxyphenyl)-4-(4-hydroxyphenyl)butane,
1-(2-phosphonothio-4,6-dihydroxyphenyl)-4-(4-hydroxyphenyl)butane,
1-(2-phosphonooxy-4-hydroxyphenyl)-4-(3-hydroxyphenyl)-1-hydroxybutane,
1-(2-phosphonoimino-4-hydroxyphenyl)-4-(3-hydroxyphenyl)-1-hydroxybutane,
1-(2-phosphonothio-4-hydroxyphenyl)-4-(3-hydroxyphenyl)-1-hydroxybutane,
1-(2-phosphonooxy-5-hydroxyphenyl)-4-(3-hydroxyphenyl)-1-hydroxybutane,
1-(2-phosphonoimino-5-hydroxyphenyl)-4-(3-hydroxyphenyl)-1-hydroxybutane,
1-(2-phosphonothio-5-hydroxyphenyl)-4-(3-hydroxyphenyl)-1-hydroxybutane,
1-(2-phosphonooxy-6-hydroxyphenyl)-4-(3-hydroxyphenyl)-1-hydroxybutane,
1-(2-phosphonoimino-6-hydroxyphenyl)-4-(3-hydroxyphenyl)-1-hydroxybutane,
1-(2-phosphonothio-6-hydroxyphenyl)-4-(3-hydroxyphenyl)-1-hydroxybutane,

1-(2-phosphonooxy-4,6-dihydroxyphenyl)-4-(3-hydroxyphenyl)-1-hydroxybutane,
 1-(2-phosphonoimino-4,6-dihydroxyphenyl)-4-(3-hydroxyphenyl)-1-hydroxybutane,
 1-(2-phosphonothio-4,6-dihydroxyphenyl)-4-(3-hydroxyphenyl)-1-hydroxybutane,
 1-(2-phosphonooxy-4-hydroxyphenyl)-4-(4-hydroxyphenyl)-1-hydroxybutane,
 1-(2-phosphonoimino-4-hydroxyphenyl)-4-(4-hydroxyphenyl)-1-hydroxybutane,
~~1-(2-phosphonothio-4-hydroxyphenyl)-4-(4-hydroxyphenyl)-1-hydroxybutane~~
1-(2-phosphonothio-4-hydroxyphenyl)-4-(4-hydroxyphenyl)-1-hydroxybutane,
 1-(2-phosphonooxy-5-hydroxyphenyl)-4-(4-hydroxyphenyl)-1-hydroxybutane,
 1-(2-phosphonoimino-5-hydroxyphenyl)-4-(4-hydroxyphenyl)-1-hydroxybutane,
 1-(2-phosphonothio-5-hydroxyphenyl)-4-(4-hydroxyphenyl)-1-hydroxybutane,
 1-(2-phosphonooxy-6-hydroxyphenyl)-4-(4-hydroxyphenyl)-1-hydroxybutane,
 1-(2-phosphonoimino-6-hydroxyphenyl)-4-(4-hydroxyphenyl)-1-hydroxybutane,
 1-(2-phosphonothio-6-hydroxyphenyl)-4-(4-hydroxyphenyl)-1-hydroxybutane,
 1-(2-phosphonooxy-4,6-dihydroxyphenyl)-4-(4-hydroxyphenyl)-1-hydroxybutane,
 1-(2-phosphonoimino-4,6-dihydroxyphenyl)-4-(4-hydroxyphenyl)-1-hydroxybutane,
 1-(2-phosphonothio-4,6-dihydroxyphenyl)-4-(4-hydroxyphenyl)-1-hydroxybutane,
 1-(2-phosphonooxy-4-hydroxyphenyl)-4-(3-hydroxyphenyl)-1,1-dihydroxybutane,
 1-(2-phosphonoimino-4-hydroxyphenyl)-4-(3-hydroxyphenyl)-1,1-dihydroxybutane,
 1-(2-phosphonothio-4-hydroxyphenyl)-4-(3-hydroxyphenyl)-1,1-dihydroxybutane,
 1-(2-phosphonooxy-5-hydroxyphenyl)-4-(3-hydroxyphenyl)-1,1-dihydroxybutane,
 1-(2-phosphonoimino-5-hydroxyphenyl)-4-(3-hydroxyphenyl)-1,1-dihydroxybutane,
 1-(2-phosphonothio-5-hydroxyphenyl)-4-(3-hydroxyphenyl)-1,1-dihydroxybutane,
 1-(2-phosphonooxy-6-hydroxyphenyl)-4-(3-hydroxyphenyl)-1,1-dihydroxybutane,
 1-(2-phosphonoimino-6-hydroxyphenyl)-4-(3-hydroxyphenyl)-1,1-dihydroxybutane,
 1-(2-phosphonothio-6-hydroxyphenyl)-4-(3-hydroxyphenyl)-1,1-dihydroxybutane,
 1-(2-phosphonooxy-4,6-dihydroxyphenyl)-4-(3-hydroxyphenyl)-1,1-dihydroxybutane,
 1-(2-phosphonoimino-4,6-dihydroxyphenyl)-4-(3-hydroxyphenyl)-1,1-dihydroxybutane,
 1-(2-phosphonothio-4,6-dihydroxyphenyl)-4-(3-hydroxyphenyl)-1,1-dihydroxybutane,

1-(2-phosphonooxy-4-hydroxyphenyl)-4-(4-hydroxyphenyl)-1,1-dihydroxybutane,
 1-(2-phosphonoimino-4-hydroxyphenyl)-4-(4-hydroxyphenyl)-1,1-dihydroxybutane,
~~1-(2-phosphonothio-4-dihydroxyphenyl)-4-(4-hydroxyphenyl)-1,1-dihydroxybutane~~
1-(2-phosphonothio-4-hydroxyphenyl)-4-(4-hydroxyphenyl)-1,1-dihydroxybutane,
 1-(2-phosphonooxy-5-hydroxyphenyl)-4-(4-hydroxyphenyl)-1,1-dihydroxybutane,
 1-(2-phosphonoimino-5-hydroxyphenyl)-4-(4-hydroxyphenyl)-1,1-dihydroxybutane,
~~1-(2-phosphonothio-5-dihydroxyphenyl)-4-(4-hydroxyphenyl)-1,1-dihydroxybutane~~
1-(2-phosphonothio-5-hydroxyphenyl)-4-(4-hydroxyphenyl)-1,1-dihydroxybutane,
 1-(2-phosphonooxy-6-hydroxyphenyl)-4-(4-hydroxyphenyl)-1,1-dihydroxybutane,
 1-(2-phosphonoimino-6-hydroxyphenyl)-4-(4-hydroxyphenyl)-1,1-dihydroxybutane,
 1-(2-phosphonothio-6-hydroxyphenyl)-4-(4-hydroxyphenyl)-1,1-dihydroxybutane,
 1-(2-phosphonooxy-4,6-dihydroxyphenyl)-4-(4-hydroxyphenyl)-1,1-dihydroxybutane,
 1-(2-phosphonoimino-4,6-dihydroxyphenyl)-4-(4-hydroxyphenyl)-1,1-dihydroxybutane,
 1-(2-phosphonothio-4,6-dihydroxyphenyl)-4-(4-hydroxyphenyl)-1,1-dihydroxybutane,
 1-(2-phosphonooxy-4-hydroxyphenyl)-4-(3-hydroxyphenyl)butan-1-one,
 1-(2-phosphonoimino-4-hydroxyphenyl)-4-(3-hydroxyphenyl)butan-1-one,
 1-(2-phosphonothio-4-hydroxyphenyl)-4-(3-hydroxyphenyl)butan-1-one,
 1-(2-phosphonooxy-5-hydroxyphenyl)-4-(3-hydroxyphenyl)butan-1-one,
 1-(2-phosphonoimino-5-hydroxyphenyl)-4-(3-hydroxyphenyl)butan-1-one,
 1-(2-phosphonothio-5-hydroxyphenyl)-4-(3-hydroxyphenyl)butan-1-one,
 1-(2-phosphonooxy-6-hydroxyphenyl)-4-(3-hydroxyphenyl)butan-1-one,
 1-(2-phosphonoimino-6-hydroxyphenyl)-4-(3-hydroxyphenyl)butan-1-one,
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 1-(2-phosphonoimino-4,6-dihydroxyphenyl)-4-(3-hydroxyphenyl)butan-1-one,
 1-(2-phosphonothio-4,6-dihydroxyphenyl)-4-(3-hydroxyphenyl)butan-1-one,
 1-(2-phosphonooxy-4-hydroxyphenyl)-4-(4-hydroxyphenyl)butan-1-one,
 1-(2-phosphonoimino-4-hydroxyphenyl)-4-(4-hydroxyphenyl)butan-1-one,

~~1-(2-phosphonothio-4-dihydroxyphenyl)-4-(4-hydroxyphenyl)butan-1-one~~
1-(2-phosphonothio-4-hydroxyphenyl)-4-(4-hydroxyphenyl)butan-1-one,
1-(2-phosphonoxy-5-hydroxyphenyl)-4-(4-hydroxyphenyl)butan-1-one,
1-(2-phosphonoimino-5-hydroxyphenyl)-4-(4-hydroxyphenyl)butan-1-one,
1-(2-phosphonothio-5-hydroxyphenyl)-4-(4-hydroxyphenyl)butan-1-one,
1-(2-phosphonoxy-6-hydroxyphenyl)-4-(4-hydroxyphenyl)butan-1-one,
1-(2-phosphonoimino-6-hydroxyphenyl)-4-(4-hydroxyphenyl)butan-1-one,
1-(2-phosphonothio-6-hydroxyphenyl)-4-(4-hydroxyphenyl)butan-1-one,
1-(2-phosphonoxy-4,6-dihydroxyphenyl)-4-(4-hydroxyphenyl)butan-1-one,
1-(2-phosphonoimino-4,6-dihydroxyphenyl)-4-(4-hydroxyphenyl)butan-1-one,
1-(2-phosphonothio-4,6-dihydroxyphenyl)-4-(4-hydroxyphenyl)butan-1-one,
alkylated analogs (alkyl groups on the alkylenyl connector or on the two phenyl groups),
or amino analogs (hydroxy groups replaced by amino groups), and the like, and the
pharmaceutically acceptable salts thereof.